JoinMAX User Manual

Heating Device for Knee Joint Treatment

CE 0120

Manufactured by
CHANGEUI MEDICAL CO.,LTD. in Korea
TEL : 82-2-454-8272 FAX : 82-2-444-3624
http://www.diskdr.co.kr
e-mail : info@diskdr.co.kr

JoinMAX
Heating Device for Knee Joint Treatment

This product, 'JoinMAX' is the trademark of Changeui Medical and reserved by the Copyright Act. JoinMAX is the medical device approved by KFDA.

Cautions in using JoinMAX

To prevent any physical injury or damages on properties by using it rightly, make sure to read this manual carefully.

Indications

- ⊘ Indicates prohibition
- ⊘ Indicates no disassembly
- ⊘ Indicates no contact
- ● Indicates things to be kept necessarily

Make sure to keep the followings.

- ● For power supply, use the dedicated outlet for JoinMAX.(JoinMAX is a free volt product, which means you can use it whether 110V or 220V)
- ● When you do not use JoinMAX, make sure to disconnect it from an outlet.
- ● Do not touch the power plug with wet hands.
- ● Do not sleep when you put on JoinMAX (you may get burned during sleeping).
- ● The followings make sure to consult a doctor before using JoinMAX.
  - Pregnant woman
  - Patient with high fever/ acute disease/ heart failure
  - Patient with skin disease/ malignant growth/ acute edema/ bleeding
  - Patient with articular rheumatism
- ● Avoid using it on the bare skin and instead of it, use it with the safe pad provided or on trousers(innerwear).
  (Please note that when using it over 65˚c, you may get burned)
- ● Since a fire may break out if emission region is touched with combustibles such as electric wire, cotton stuff or plastics, a special attention is required.
- ● Do not expose JoinMAX to high humidity, high temperature and direct sunlight. Keep A/C adapter cord and the power cable not to bend.
- ● Do not use in strong magnetic field.
- ● Prior to and after usage of JoinMAX, please check whether JoinMAX is clean. And please keep the JoinMAX clean at all times.
- ● Do not store JoinMAX within reach of children.
- ● Please pay attention to use JoinMax if you have an allergy to metal because the surface of thermal cathodes is made of the purest silver.
- ● Please do not use if you glaze ointment.
- ⊘ Do not scratch it with a sharp-edged article.
- ⊘ Do not drop or apply excessive impact on it, which may cause malfunction.
- ⊘ Do not use JoinMAX in any humid place such as bath room or sauna.
- ⊘ Do not dip it in water for cleaning.
  (If cleaning is required, flick dusts using a dry towel, make wet a towel with dissolving neutral detergent in water and wash pollution parts, and use after drip-drying.
- ⊘ Do not bend the power cord or put any heavy article on it.
- ⊘ Do not disassemble or modify it at discretion(modification may invalidate the warranty)

JoinMAX

Heating Device for Knee Joint Treatment

A new-concept medical device
for knee joint muscle
co-developed by Korea Institute
of Biotechnology

CHANGEUI MEDICAL CO., Ltd.
which had co-developed a
disk treatment device (DISK DOCTOR™)
with Korea Institute of Biotechnology released
a new-concept medical device for knee joint muscle,
JoinMAX.
Since JoinMAX mitigates pains of the knee muscle
with completely different mechanism
unlike existing knee guard or
hot-pack type thermal apparatuses for the knee,
a patient can expect its excellent effect quickly.

JoinMAX Components

Thermal pad &
Controller-1EA

Adaptor-1EA

Cord assembly-1EA

Safe pad-1EA

Features of JoinMAX

- The innovative knee-muscle pain-reliever, JoinMAX gets thermal energy infiltrating deep into the knees by thermal radiation of halogen lamp and infrared lamp, mitigating pains of the knee muscles quickly.
- Ergonomically designed, JoinMAX deploys thermal cathodes properly suitable for the knee structure so that thermal energy is effectively infiltrated deep into the knees as worn, constantly improving symptoms.
- The surface of thermal cathodes is made of the purest silver of which thermal conduction is so high, from which thermal energy is quickly delivered deep into the knees as the natural antibacterial and antibiotic reactions are also delivered.
- Since a temp-controller with temperature memory unit is attached on JoinMAX, a proper temperature is regulated from/to 45 ~ 65, helping maintain the temperature constantly.

JoinMAX delivers
the thermal energy deep into
the joint using infrared lamp radiation.

Infrared lamp and thermal cathode inside JoinMAX with 700~50000nm wavelength to deliver thermal energy deep into the knees

View of right wearing JoinMAX
on the safe pad

Right directions of JoinMAX

1. After wearing the safe pad, put this on the knees as the temp-controller fronts upside.
   At the moment, fix it using the fasten belt as much as you could feel comfortable.
   (to maximize the effect, close it to the knees as much as you can)

2. After connecting the AC adaptor to the power cord,
   connect the adaptor to the power jack of the controller on the body frame.
   (Once it is plugged rightly, it displays '--'.)

3. To start radiation of infrared rays and thermal heat,
   click the very left button on the controller. (every click switches on or off)

4. Click the mid and right button to start thermal treatment at moderate temperature.
   (it is recommended to use 55℃ and lower for the first treatment)

5. Then, you can choose any temperature between 45℃~65℃ using buttons.
   (The temperature is controlled by 5℃ between 45℃~65℃ and
   it moved up or down by 1℃ between 56℃~65℃ for fine-setting)

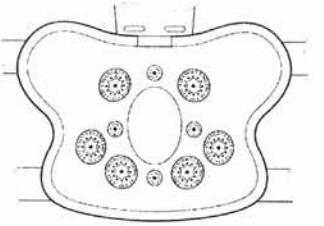
6. To close the treatment, click the button on the controller (the left one). Then, it will
   automatically stop (once you finish the use, make sure to disconnect the power cable)

7. Since an automatic timer contained JoinMAX controller automatically stops the power
   in half an hour, you can safely use it. To extend your treatment, click the button once more
   after the power-off.
   (At the moment, the memory unit memorizes the temperature set just before use,
   you do not need to adjust it again)

Front View

Designed ergonomically, JoinMAX is clearly attached to the intended region(the knees) and easy to operate functions.

Rear View



Infrared lamp and thermal cathode ergonomically designed so that infrared rays and thermal energy are to be delivered deeply.

Recommendations when using JoinMAX

1) Since the muscles and joints around the knees are smoothen and relaxed if you put it on before exercise or outing(for about half an hour), you can move or exercise freely.

2) To use it effectively, it is recommended to use JoinMAX two or three time a day, each for 30 minutes at moderate temperature(the optimal temperature is the temperature you can feel warm when putting it on. Do not set it at too hot temperature).

3) Sudden change of temperature may lower its expected effect. Temperature should be adjusted slowly(not too sudden variation).

4) It is also recommended to exercise using the knee-joint or under the water once pains are reduced.

5) When using JoinMAX, make sure to put it on the safe pad provided with the package or light innerwear(trousers)(wearing it on the bare skin may cause a burn or skin trouble).

Who needs JoinMAX

- Feels sore or painful when stepping up/down stairs or moving the knee-joint
- Feels painful around the knee-joints at changed or cloudy weather
- Has stiff movement and feels uncomfortable around the joints
- Has swollen or stiff knees after movement or in the afternoon or evening

Warranty Card

- This product is manufactured through strict quality control and inspection.
- Once any defect is found, it is duly warranted for 14 months from the manufacturing date. (Any trouble attributable to a customer is exceptional)
- This warranty card is valid only within the country.
- For repair or otherwise A/S service, make sure to keep and represent this card to a serviceman.
- Keep this card safely because it is reissued in no case.
- Please contact our A/S service center for any defect, and our specialist will be shortly and kindly with you.

Item number	04-1246	Model	JoinMAX
Product name	Heating Device for Knee Joint Treatment	Weight & Packing Unit	Thermal pad & belt : 362g Controller : 126g Adaptor : 370g Cord assembly : 218g Safe pad
Rated Electricity	AC100-240V /50-60Hz(DC12V)	Power Comnuption	42W/h
Protection type and degree for electric shock		Grade 2 device, Type B device	
Intended Purposes	Device to apply heat to the body and mitigate any muscular pain(thermal part) Device used to mitigate muscular pain by radiating infrared energy with wavelength between 700~50000nm		
Warranty Period	14 months from manufacturing date	A/S center	CHANGEUI MEDICAL CO.,LTD.
Date of Purchase		Dealer	
Manufacturer	#401,Yeongseo Bldg., 796 Jayang - dong, Gwangjin-gu, Seoul TEL : 82-2-454-8272 CHANGEUI MEDICAL CO.,LTD.		

Customer's Name		TEL	
Address			

- This product is a dedicated medical device.

Ortho Medical Ltd
Challenge House
616 Mitcham Road
Croydon, Surrey
CR0 3AA, UK
Tel: 020 8684 5222
www.orthomedical.co.uk
sales@orthomedical.co.uk

Company

CHANGEUI MEDICAL CO.,LTD.
#401 Yeongseo Bldg., 796, Jayang-dong, Gwangjin-gu,
Seoul, 143-190. Korea

EC REP

Obelis S.A.
Av. de Tervuren 34, bte 44 B - 1040 Brussels Belgium
Tel: +32(0)2 7325954 Email: olos@obelis.net